

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/16252

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> G06F9/46, 13/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> G06F9/46, 15/16-15/177, 13/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

|                           |           |                            |           |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho       | 1922-1996 | Jitsuyo Shinan Toroku Koho | 1996-2004 |
| Kokai Jitsuyo Shinan Koho | 1971-2004 | Toroku Jitsuyo Shinan Koho | 1994-2004 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JOIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category*   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.       |
|-------------|--|-----------------------------|
| X<br>A<br>① | JP 3472540 B (Nippon Telegraph And Telephone Corp.),<br>12 September, 2003 (12.09.03),<br>Page 8, left column, line 22 to page 11, left column, line 22; Figs. 1 to 10<br>(Family: none) | 1, 4, 7<br>2, 3, 5, 6, 8, 9 |
| X<br>A<br>② | JP 2000-112908 A (Toshiba Corp.),<br>21 April, 2000 (21.04.00),<br>Full text; all drawings<br>(Family: none)   | 1, 4, 7<br>2, 3, 5, 6, 8, 9 |
| X<br>A<br>③ | JP 2000-47890 A (Hitachi, Ltd.),<br>18 February, 2000 (18.02.00),<br>Page 5, left column, line 28 to page 6, left column, line 40; Figs. 4 to 7  | 1, 4, 7<br>2, 3, 5, 6, 8, 9 |



Further documents are listed in the continuation of Box C.



See patent family annex.

|   |  |
|---|--|
| * Special categories of cited documents:  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "E" earlier document but published on or after the international filing date  | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family  |
| "O" document referring to an oral disclosure, use, exhibition or other means  |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search  
29 March, 2004 (29.03.04)

Date of mailing of the international search report  
13 April, 2004 (13.04.04)

Name and mailing address of the ISA/  
Japanese Patent Office

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## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category*   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.       |
|-------------|--|-----------------------------|
| X<br>A<br>④ | JP 10-307783 A (NTT Data Corp.),<br>17 November, 1998 (17.11.98),<br>Page 9, left column, line 42 to right column,<br>line 14; all drawings<br>(Family: none)  | 1, 4, 7<br>2, 3, 5, 6, 8, 9 |
| A<br>⑤      | JP 10-198643 A (Hitachi, Ltd.),<br>31 July, 1998 (31.07.98),<br>Claims; all drawings<br>(Family: none)   | 1-9                         |
| A<br>⑥      | EP 1170663 A2 (Matsushita Electric Industrial<br>Co., Ltd.),<br>09 January, 2002 (09.01.02),<br>Full text; all drawings<br>& US 2002-4814 A1 & JP 2002-24194 A | 1-9                         |